

UNITED STATES PATENT AND TRADEMARK OFFICE  
**CERTIFICATE OF CORRECTION**

PATENT NO. : 7,054,256 B2  
APPLICATION NO. : 10/082928  
DATED : May 30, 2006  
INVENTOR(S) : Hunter et al.

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It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Delete Title page illustrating figures, and substitute therefor, new Title page illustrating figures. (attached)

Delete drawing sheets 1-4, and substitute therefor drawing sheets 1-4. (attached)

Signed and Sealed this

Eleventh Day of December, 2007

A handwritten signature in black ink, reading "Jon W. Dudas". The signature is stylized, with a large loop for the "J" and a cursive "Dudas".

JON W. DUDAS  
*Director of the United States Patent and Trademark Office*

(12) **United States Patent**  
**Hunter et al.**

(10) Patent No.: **US 7,054,256 B2**  
 (45) Date of Patent: **May 30, 2006**

(54) **HIGH CAPACITY DIGITAL DATA STORAGE BY TRANSMISSION OF RADIANT ENERGY THROUGH ARRAYS OF SMALL DIAMETER HOLES**

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(73) Assignee: Ochoo Optics LLC, Las Vegas, NV (US)

(\*) Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 721 days.

(21) Appl. No.: 10/082,928

(22) Filed: Oct. 19, 2001

(65) Prior Publication Data  
 US 2002/0126616 A1 Sep. 12, 2002

**Related U.S. Application Data**

(60) Provisional application No. 60/242,042, filed on Oct. 20, 2000.

(51) Int. Cl.  
 G11B 7/00 (2006.01)

(52) U.S. Cl. 369/118; 369/275.4; 369/283

(58) Field of Classification Search 369/275.4, 369/124.12, 288, 283, 282  
 See application file for complete search history.

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Primary Examiner—Hoa T. Nguyen

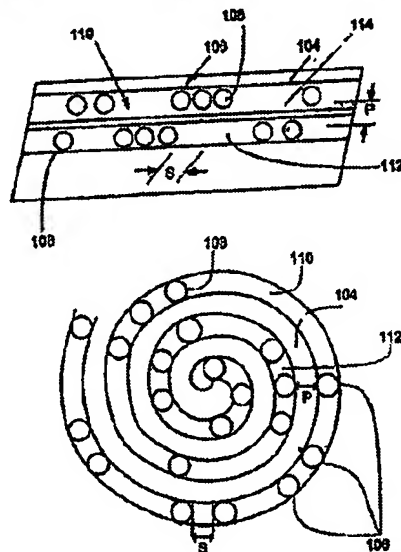
Assistant Examiner—Van T. Pham

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(57) **ABSTRACT**

A storage media for storage of data thereon is provided. The storage media including: a first layer, the first layer being substantially transparent to a predetermined radiant energy used for reading the data; and a second layer formed on the first layer and being substantially opaque to the radiant energy, the second layer having a pattern comprising a plurality of holes, each of the holes having a largest dimension which is greater than a wavelength of the radiant energy, the data being stored as the presence or absence of a hole in the pattern. Also provided are a method for fabricating the storage media as well as an apparatus and method for reading the data stored on the storage media.

3 Claims, 4 Drawing Sheets





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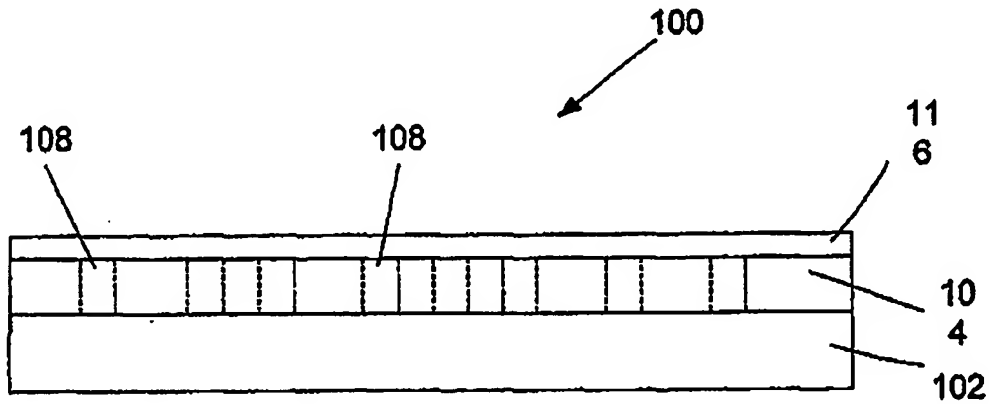


Figure 1

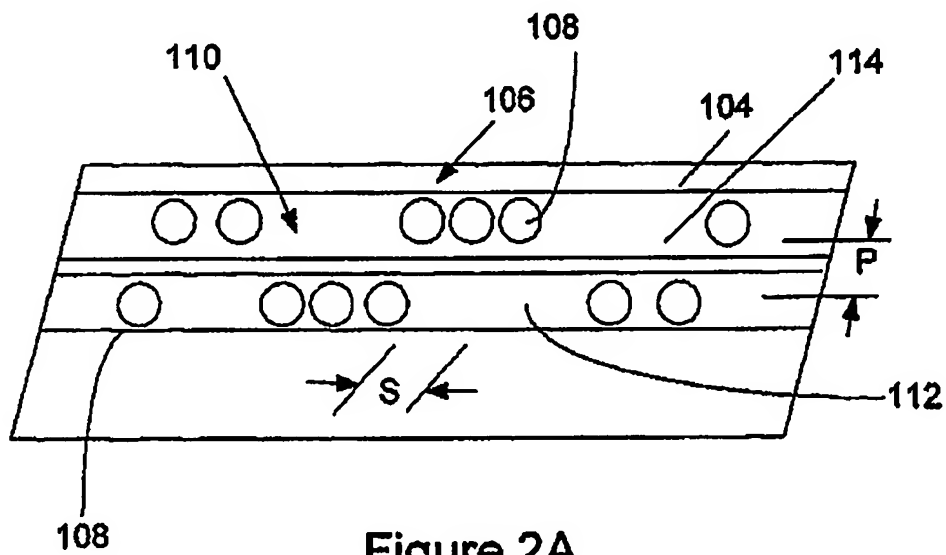


Figure 2A

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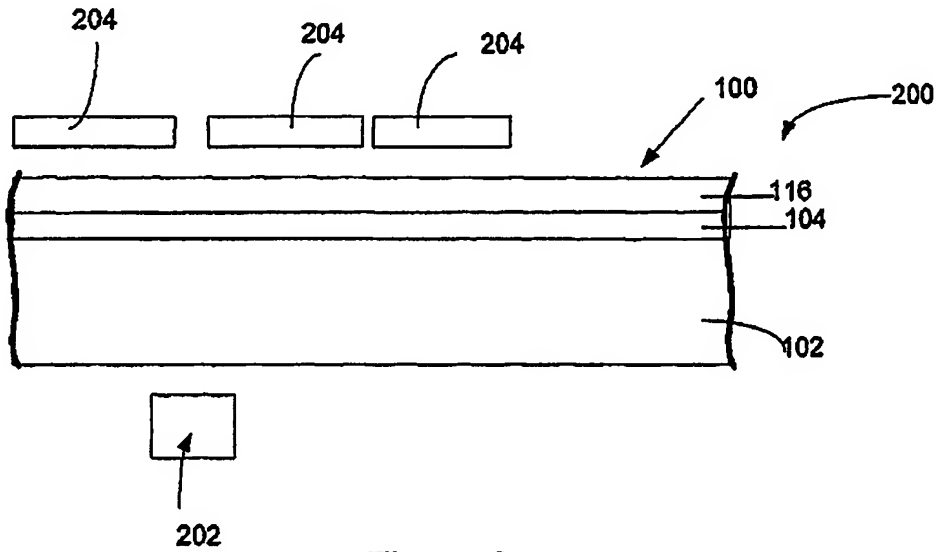


Figure 3

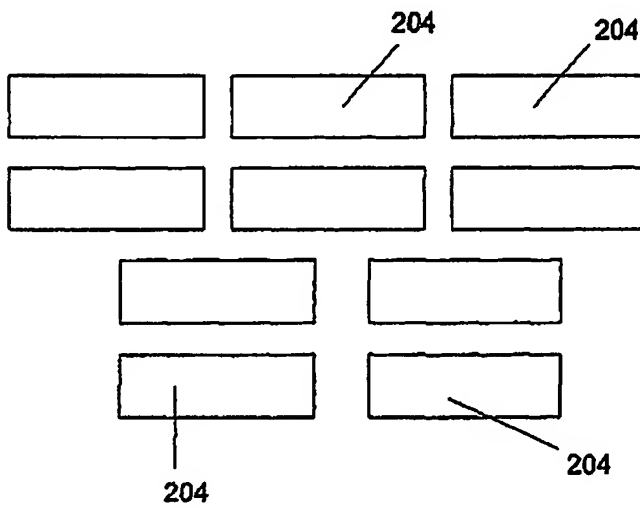


Figure 4

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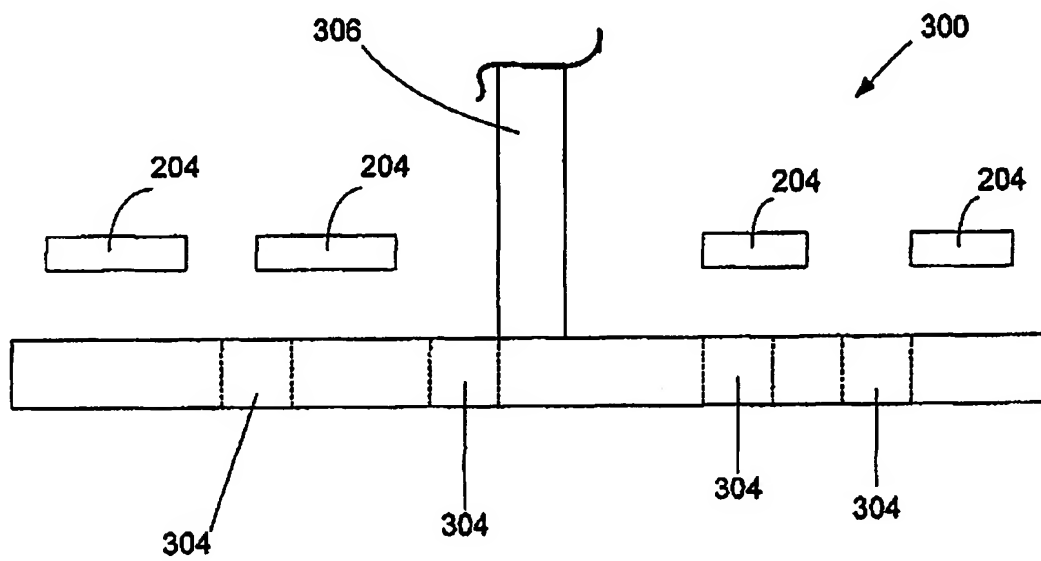


Figure 5